

SEQUENCE LISTING

<110> Ruoslahti, Erkki
 Pasqualini, Renata
 Rajotte, Daniel

<120> Methods of Identifying Lung Homing Molecules Using
 Membrane Dipeptidase

<130> P-LJ 4377

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<150> 09/042,107

<151> 1998-03-13

<160> 452

<170> PatentIn Ver. 2.0

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Leu Tyr Cys Leu Asp Ala Ser Cys Leu
1 5

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<220>
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<400> 342
Glu Arg Cys Pro Met Ala Lys Cys Tyr
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<210> 343
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<220>
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Leu Val Cys Gln Gly Ser Pro Cys Leu
1 5

<210> 344
<211> 9
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<220>
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<400> 344

Gln Gln Cys Gln Asp Pro Tyr Cys Leu
1 5

<210> 345
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<223> Unsure

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Asp Xaa Cys Xaa Asp Ile Trp Cys Leu
1 5

<210> 346
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 346
Gln Pro Cys Arg Ser Met Val Cys Ala
1 5

<210> 347
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 347

Lys Thr Cys Val Gly Val Arg Val

1

5

<210> 348

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

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Trp Ser Cys His Glu Phe Met Cys Arg

1

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<210> 349

<211> 8

<212> PRT

<213> Artificial Sequence

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Cys Ser Lys Leu Met Met Thr Cys

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<210> 350

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

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Leu Thr Cys Trp Asp Trp Ser Cys Arg

1

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<210> 351

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 351

Ser Leu Cys Arg Leu Ser Thr Cys Ser

1

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<210> 352

<211> 9

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<223> Description of Artificial Sequence: Synthetic

<400> 352

Lys Thr Cys Ala Gly Ser Ser Cys Ile

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<210> 353

<211> 9

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<223> Description of Artificial Sequence: Synthetic

<400> 353

Val Ile Cys Thr Gly Arg Gln Cys Gly

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<210> 354

<211> 8

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<223> Description of Artificial Sequence: Synthetic

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Asn Pro Cys Phe Gly Leu Leu Val

1

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<210> 355
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Ser Leu Cys Thr Ala Phe Asn Cys His
1 5

<210> 356
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Arg Thr Cys Thr Pro Ser Arg Cys Met
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<210> 357
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Gln Ser Cys Leu Trp Arg Ile Cys Ile
1 5

<210> 358
<211> 9
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<400> 358

Gln Tyr Cys Trp Ser Lys Gly Cys Arg
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<210> 359

<211> 9

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 359

Leu Gly Cys Phe Pro Ser Trp Cys Gly
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<210> 360

<211> 9

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<213> Artificial Sequence

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<400> 360

Val Thr Cys Ser Ser Glu Trp Cys Leu
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<210> 361

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 361

Arg Leu Cys Ser Trp Gly Gly Cys Ala
1 5

<210> 362

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 362

Ser Thr Cys Ile Ser Val His Cys Ser

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5

<210> 363

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

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Glu Val Cys Leu Val Leu Ser Cys Gln

1

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<210> 364

<211> 9

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 364

Ile Ala Cys Asp Gly Tyr Leu Cys Gly

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<210> 365

<211> 9

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 365

Arg Asp Cys Val Lys Asn Leu Cys Arg

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1 5

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<400> 368
Ile Arg Cys Trp Gly Gly Arg Cys Ser
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<210> 369
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<220>
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<400> 369
Ile Pro Cys Ser Leu Leu Gly Cys Ala
1 5

<210> 370
<211> 9
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<400> 370
Ala Gly Cys Val Gln Ser Gln Cys Tyr
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<210> 371
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<220>
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<400> 371
Pro Arg Cys Trp Glu Arg Val Cys Ser
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<210> 372
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<220>
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Lys Ala Cys Phe Gly Ala Asp Cys Xaa
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<210> 373

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 373

Thr Leu Cys Pro Leu Val Ala Cys Glu
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<210> 374

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 374

Ser Ala Cys Trp Leu Ser Asn Cys Ala
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<210> 375

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 375

Ser Glu Cys Tyr Thr Gly Ser Cys Pro
1 5

<210> 376

<211> 9
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 376

Gly Leu Cys Gln Glu His Arg Cys Trp
1 5

<210> 377

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 377

Val Glu Cys Gly Phe Ser Ala Val Phe
1 5

<210> 378

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 378

Glu Asp Cys Arg Glu Trp Gly Cys Arg
1 5

<210> 379

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 379

His Trp Cys Arg Leu Leu Ala Cys Arg

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<210> 380

<211> 7

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 380

His Lys Gly Gln Val Tyr Ser

1

5

<210> 381

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 381

Phe Ser Asp Val His Phe Trp

1

5

<210> 382

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 382

Arg Gly Ile Phe Val Ser Ser

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<210> 383

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 383

Pro Lys Val Lys Leu Ser Glu
1 5

<210> 384

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 384

Leu Arg Phe Trp Gln Glu Ser
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<210> 385

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 385

Ile Trp Thr Val Val Gly Gln
1 5

<210> 386

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

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Asp Lys Val Gly Leu Ser Val
1 5

<210> 387

<211> 7

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<220>
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Ser Glu Thr Trp Arg Gln Phe
1 5

<210> 388
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<220>
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Leu Asp Gly Met Ile Val Lys
1 5

<210> 389
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<220>
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Arg Tyr Pro Leu Ala Gly Gly
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<210> 390
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<220>
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<400> 390
Phe Thr Asp Gly Glu Asp Lys
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<210> 391

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 391

Arg Ser Thr Glu His Met Ser

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<210> 392

<211> 7

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 392

Ser Gly Arg Arg His Glu Leu

1

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<210> 393

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 393

Ser Ser Ser Arg Val Arg Ser

1

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<210> 394

<211> 7

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<220>

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<400> 394

Tyr His Arg Ser Val Gly Arg

1

5

<210> 395

<211> 7

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<400> 395

Pro Leu Leu Arg Pro Pro His

1

5

<210> 396

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 396

Ser Asp Lys Leu Gly Phe Val

1

5

<210> 397

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 397

Ala Gly Ser Arg Thr Asn Arg

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<210> 398

<211> 7

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<400> 398

Ile Thr Gln Leu His Lys Thr
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<210> 399

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<220>

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<400> 399

Ala Arg Cys Leu Val Tyr Arg
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 400

Gly Tyr Val Ala Val Met Thr
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<210> 401

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 401

Gly Leu Gln Val Lys Trp Val
1 5

<210> 402
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<220>
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Ile Phe Thr Pro Gly Trp Leu
1 5

<210> 403
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<220>
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Lys Gln Thr Ser Arg Phe Leu
1 5

<210> 404
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<220>
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<222> (2)
<223> Tyrosine or Phenylalanine

<220>
<223> Description of Artificial Sequence: Synthetic

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1 5

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<220>

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Ala Arg Arg Gly Trp Thr Leu
1 5

<210> 406

<211> 7

<212> PRT

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<220>

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<400> 406

Ser Arg Arg Phe Val Gly Gly
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<210> 407

<211> 7

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 407

Gln Leu Thr Gly Gly Cys Leu
1 5

<210> 408

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 408

Ala Leu Glu Arg Arg Ser Leu
1 5

<210> 409

<211> 7

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<220>

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<400> 409

Lys Ala Tyr Phe Arg Trp Arg

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Arg Trp Leu Ala Trp Thr Val

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<210> 411

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 411

Val Gly Ser Phe Ile Tyr Ser

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<210> 412

<211> 7

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<220>

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<400> 412

Leu Ser Leu Leu Gly Ile Ala

1

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<400> 413

Leu Ser Thr Val Leu Trp Phe

1

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<210> 414

<211> 7

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 414

Ser Leu Ala Met Arg Asp Ser

1

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<210> 415

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 415

Gly Arg Ser Ser Leu Ala Cys

1

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<210> 416

<211> 7

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 416

Ser Glu Leu Leu Gly Asp Ala

1

5

<210> 417

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 417

Cys Gly Gly Ala Gly Ala Arg

1

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<210> 418

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 418

Trp Arg Gln Asn Met Pro Leu

1

5

<210> 419

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 419

Asp Phe Leu Arg Cys Arg Val

1

5

<210> 420
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 420
Gln Ala Gly Leu Arg Cys His
1 5

<210> 421
<211> 7
<212> PRT
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<220>
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<400> 421
Arg Ala Leu Tyr Asp Ala Leu
1 5

<210> 422
<211> 7
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 422
Trp Val Ser Val Leu Gly Phe
1 5

<210> 423
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 423

Gly Met Ala Val Ser Ser Trp
1 5

<210> 424
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 424
Ser Trp Phe Phe Leu Val Ala
1 5

<210> 425
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 425
Trp Gln Ser Val Val Arg Val
1 5

<210> 426
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 426
Cys Gly Asn Gly His Ser Cys
1 5

<210> 427
<211> 7
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 427

Ala Glu Met Glu Gly Arg Asp

1

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<210> 428

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 428

Ser Leu Arg Pro Asp Asn Gly

1

5

<210> 429

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 429

Pro Ala Met Gly Leu Ile Arg

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5

<210> 430

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 430

Leu Ala Gly Gly

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<210> 431

<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
<221> SITE
<222> (14)..(23)
<223> 1 to 10 independently selected amino acids

<220>
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1 5 10 15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<223> 0 to 10 independently selected amino acids

<220>
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<400> 432
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Ala Gly Gly Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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<220>
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<220>
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 Tyr Ser Gly Lys Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 434
 <211> 23
 <212> PRT
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<220>
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<400> 434
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Gly Ser Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 435

<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 435
Cys Cys Phe Thr Asn Phe Asp Cys Tyr Leu Gly Cys
1 5 10

<210> 436
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<223> 1 to 10 independently selected amino acids

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 436
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Asp Val Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 437
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 437

Cys Val Asp Val Cys Cys Asp Gly Cys Pro Val Cys Cys
1 5 10

<210> 438
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 438
Arg Val Pro Leu Ser Gly Asp Val Glu His
1 5 10

<210> 439
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 439
Leu Arg Val Met Ser Phe Thr Ser Gly Gln
1 5 10

<210> 440
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 440
Arg Phe Ser Val Gly Ser Leu Phe Gly Ser
1 5 10

<210> 441
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<212> PRT
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<220>

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Peptide

<400> 441

Cys Gly Ala Thr Cys Glu Met Gln Cys Pro Ser Gly Cys
1 5 10

<210> 442

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 442

Gly Arg Gly Glu Ser Pro
1 5

<210> 443

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 443

Cys Ala Arg Ala Cys
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<210> 444

<211> 10

<212> PRT

<213> Rattus sp.

<400> 444

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg
1 5 10

<210> 445
<211> 24
<212> PRT
<213> Rattus sp.

<400> 445
Thr Thr Pro Val Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu
1 5 10 15

Thr Leu Phe Asn Asn Gln Leu Arg
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<210> 446
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Nucleotide

<400> 446
ccgctggtac cgcagatccc tggggacctt g 31

<210> 447
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
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Nucleotide

<400> 447
tctttctaga gctcagagag cactggagga g 31

<210> 448
<211> 411
<212> PRT
<213> Homo sapiens

<400> 448
Met Trp Ser Gly Trp Trp Leu Trp Ser Leu Val Ala Val Cys Thr Ala
1 5 10 15

Asp Phe Phe Arg Asp Glu Ala Glu Arg Ile Met Arg Asp Ser Pro Val
 20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asp Met Phe Asn
 35 40 45

Asn Arg Leu Gln Asp Glu Arg Ala Asn Leu Thr Thr Leu Ala Gly Thr
 50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
 65 70 75 80

Trp Ser Val Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Arg
 85 90 95

Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Arg Met Tyr
 100 105 110

Pro Glu Thr Phe Leu Tyr Val Thr Ser Ser Ala Gly Ile Arg Gln Ala
 115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
 130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Gln Leu Gly
 145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Ser Cys Asn Thr Pro Trp Ala Asp
 165 170 175

Asn Trp Leu Val Asp Thr Gly Asp Ser Glu Pro Gln Ser Gln Gly Leu
 180 185 190

Ser Pro Phe Gly Gln Arg Val Val Lys Glu Leu Asn Arg Leu Gly Val
 195 200 205

Leu Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Thr Leu
 210 215 220

Gln Leu Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
 225 230 235 240

Val Cys Ala Ser Arg Arg Asn Val Pro Asp Asp Val Leu Arg Leu Val
 245 250 255

Lys Gln Thr Asp Ser Leu Val Met Val Asn Phe Tyr Asn Asn Tyr Ile
 260 265 270

Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
 275 280 285

His Ile Lys Glu Val Ala Gly Ala Arg Ala Val Gly Phe Gly Gly Asp
 290 295 300

Phe Asp Gly Val Pro Arg Val Pro Glu Gly Leu Glu Asp Val Ser Lys
 305 310 315 320

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Ala
 325 330 335

Glu Val Lys Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
 340 345 350

Val Glu Gln Ala Ser Asn Leu Thr Gln Ala Pro Glu Glu Glu Pro Ile
 355 360 365

Pro Leu Asp Gln Leu Gly Gly Ser Cys Arg Thr His Tyr Gly Tyr Ser
 370 375 380

Ser Gly Ala Ser Ser Leu His Arg His Trp Gly Leu Leu Leu Ala Ser
 385 390 395 400

Leu Ala Pro Leu Val Leu Cys Leu Ser Leu Leu
 405 410

<210> 449
 <211> 409
 <212> PRT
 <213> Sus scrofa

<400> 449

Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Ala Ala
 1 5 10 15

Asp Gln Phe Arg Asp Leu Ala Val Arg Ile Met Gln Asp Thr Pro Val
 20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn
 35 40 45

Asn Gln Leu Gln Asp Pro Gly Ala Asn Leu Ser Ser Leu Ala His Thr
 50 55 60

His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe
 65 70 75 80

Trp Ser Ala Tyr Val Pro Cys Asp Thr Gln Asn Arg Asp Ala Val Lys
85 90 95

Arg Thr Leu Glu Gln Ile Asp Val Ile Gln Arg Met Cys Gln Ala Tyr
100 105 110

Pro Glu Thr Phe Ala Cys Val Thr Ser Ser Thr Gly Ile Arg Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Val Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Met Thr Leu Thr His Ser Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Thr Gly Asp Asp Lys Ala Gln Ser Gln Gly Leu
180 185 190

Ser His Phe Gly Gln Ser Val Val Lys Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Arg Ala Ala Leu
210 215 220

Lys Leu Ser Gln Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
260 265 270

Ser Cys Ser Ala Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

His Ile Lys Lys Val Ala Gly Ala Ala Ala Val Gly Phe Gly Gly Asp
290 295 300

Tyr Asp Gly Val Ser Arg Val Pro Ser Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gln Trp Thr Glu Ala
325 330 335

Glu Val Arg Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
 340 345 350

Val Glu Gln Ala Ser Asn His Ala Gln Val Pro Gly Glu Glu Pro Ile
 355 360 365

Pro Leu Gly Gln Leu Glu Ala Ser Cys Arg Thr Asn Tyr Gly Tyr Ser
 370 375 380

Ala Ala Pro Ser Leu His Leu Pro Pro Gly Ser Leu Leu Ala Ser Leu
 385 390 395 400

Val Pro Leu Leu Leu Leu Ser Leu Pro
 405

<210> 450

<211> 410

<212> PRT

<213> Rattus sp.

<400> 450

Met Leu Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser
 1 5 10 15

Asp Ser Phe Arg Asn Gln Ala Glu Asn Ile Met Arg Thr Thr Pro Val
 20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu Thr Leu Phe Asn
 35 40 45

Asn Gln Leu Arg Lys Ser Glu Ala Asn Leu Ser Ala Leu Ala Glu Thr
 50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
 65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys
 85 90 95

Arg Ile Leu Glu Gln Ile Asp Val Ile His Arg Met Cys Gln Leu Tyr
 100 105 110

Pro Glu Thr Phe Glu Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
 115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His

130		135		140
Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly				
145		150		155 160
Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp				
	165		170	175
Asn Trp Leu Val Asp Lys Gly Asp Asp Glu Ala Glu Ser Gln Gly Leu				
	180		185	190
Ser Pro Phe Gly Lys Leu Val Leu Asn Glu Met Asn Arg Leu Gly Val				
	195		200	205
Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu				
	210		215	220
Gln Leu Ser Lys Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser				
	225		230	235 240
Val Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val				
		245	250	255
Lys Ser Thr Asn Ser Leu Val Met Val Asn Phe Tyr Asn Gln Phe Val				
	260		265	270
Ser Cys Ser Asp Ser Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp				
	275		280	285
His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp				
	290		295	300
Tyr Asp Gly Val Thr Asn Leu Pro Val Gly Leu Glu Asp Val Ser Lys				
	305		310	315 320
Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr				
		325	330	335
Glu Val Arg Gly Leu Leu Ala Glu Asn Leu Leu Arg Val Phe Ser Ala				
	340		345	350
Val Glu Leu Val Ser Asn Ile Met Gln Val Pro Glu Glu Glu Thr Ile				
	355		360	365
Pro Val Glu Lys Leu Asp Gly Ser Cys Arg Thr Phe Tyr Gly His Ser				
	370		375	380
Arg Ala Pro Ser Ile His Leu Gln Ile Gly Ala Leu Leu Ala Ser Leu				

385

390

395

400

Ala Ser Leu Val Phe Ser Leu His Pro Leu
405 410

<210> 451

<211> 410

<212> PRT

<213> Mus musculus

<400> 451

Met Val Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser
1 5 10 15

Asp Ser Phe Arg Asp Gln Ala Val Ala Ile Met Arg Thr Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn
35 40 45

Asn Gln Leu Leu Arg Pro Asp Ala Asp Leu Asn Lys Leu Ala Gln Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Ile His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Met Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Glu Ser His Gly Leu
180 185 190

Ser Pro Phe Gly Lys Arg Leu Leu Asn Glu Met Thr Arg Leu Gly Val
 195 200 205

Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu
 210 215 220

Gln Ile Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
 225 230 235 240

Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
 245 250 255

Lys Asn Thr Ser Ser Leu Val Met Val Asn Phe Phe Ser Asn Phe Val
 260 265 270

Ser Cys Ser Asp Ser Ala Thr Leu Pro Gln Val Ala Asp His Leu Asp
 275 280 285

His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp
 290 295 300

Tyr Asp Gly Val Thr Met Leu Pro Val Gly Leu Glu Asp Val Ser Lys
 305 310 315 320

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr
 325 330 335

Glu Val Arg Gly Leu Leu Ala Asp Asn Leu Ile Arg Val Phe Ser Glu
 340 345 350

Val Glu Leu Val Ser Ser Asn Met Gln Ser Pro Glu Glu Val Pro Ile
 355 360 365

Thr Leu Lys Glu Leu Asp Gly Ser Cys Arg Thr Tyr Tyr Gly Tyr Ser
 370 375 380

Gln Ala His Ser Ile His Leu Gln Thr Gly Ala Leu Val Ala Ser Leu
 385 390 395 400

Ala Ser Leu Leu Phe Arg Leu His Leu Leu
 405 410

<210> 452

<211> 410

<212> PRT

<213> Oryctolagus cuniculus

<400> 452

Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Thr Ala
1 5 10 15

Asp Ser Phe Leu Asp Gln Ala Val Gln Ile Leu Arg Val Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Lys Phe Asn
35 40 45

Asn Arg Leu Gln Asp Ser Arg Ala Asn Leu Thr Val Leu Ala Asp Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Thr Val Arg
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Leu Cys Val Thr Asp Ser Ala Gly Ile Gln Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Arg Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Gln Ser Gly Gly Leu
180 185 190

Ser Val Phe Gly Gln Arg Val Val Arg Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Ala Leu
210 215 220

Gln Leu Ser Thr Ala Pro Val Ile Phe Ser His Ser Ser Ala Phe Thr
225 230 235 240

Val Cys Ala His Lys Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
260 265 270

Ser Cys Ala Ser Glu Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

Tyr Ile Lys Asn Val Ala Gly Ala Ala Ala Val Arg Phe Gly Gly Asp
290 295 300

Phe Asp Gly Val Thr Arg Leu Pro Val Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gly Trp Thr Glu Ala
325 330 335

Glu Val Arg Gly Ala Leu Ala Glu Asn Leu Leu Arg Val Phe Arg Glu
340 345 350

Val Glu Gln Val Ser Asn Gln Ala Gln Val Pro Glu Glu Glu Pro Ile
355 360 365

Ser Leu Glu Gln Leu Gly Gly Ser Cys Arg Thr Gln Tyr Gly Tyr Ser
370 375 380

Glu Ala Pro Ser Leu His Arg Arg Pro Gly Ala Leu Leu Ala Ser Leu
385 390 395 400

Ser Leu Leu Leu Leu Ser Leu Gly Leu Leu
405 410